Abuse-Deterrent Opioids – Evidence Evaluation & Labeling

Medication:	MorphaBond ER® (morphine extended-release)	
Evaluation Date:	$5/18/17$ Evaluation History: $oximes$ Initial Version 1.0, or $oximes$ Version	
Current Product	abeling established: \square Prior to or \boxtimes After publication of FDA Guidance to Industry Document (4/201	.5)
This is a: (Check a		
⊠ New		
	ing product, new formulation	
	ing product with new/updated labeling	
Product Ahuse I	eterrent Property Classification: - Check all that apply	
	cal / Chemical barrier	
•	ist / Antagonist combination	
□ Aver		
	ery System	
	Molecular entity or Prodrug	
	vination (check combined items)	
	Approach	
Product Labelin	ţ:	
Does th	e product have FDA abuse deterrent labeling? $oximes$ Yes or $oximes$ No Year obtained: $\underline{2015}$	
Guidance to Indu		
⊠ Labo	catory-based in vitro manipulation and extraction studies (Category 1) Description of Research:	<u>nd</u>
⊠ Phar	nacokinetic Studies (Category 2)	
	Description of Research: Pharmacokinetic studies indicate crushed MorphaBond ER® tablets given intranasal results in a 49% lower peak plasma concentration (C _{max}) of morphine and 68% lower C _{max} of morphine-6-glucuronide (M6G) compared to crushed intranasal MS Contin®. In addition, crushed intranasal MorphaBond ER® resulted in 75% lower exposure after 30 minutes (AUC _{0-0.5h}) for morphin and 68% lower AUC _{0-0.5h} for M6G compared to crushed intranasal MS Contin®	
⊠ Clini	ral Abuse potential studies (Category 3) Description of Research:Intranasal clinical abuse potential study assessed peak drug liking on VAS a primary endpoint. Peak drug liking for crushed intranasal MorphaBond ER® was significantly lower compared to crushed intranasal MS Contin® (P<0.0001). In addition, there was no significant difference in drug liking between crushed intranasal MorphaBond ER® and intact MorphaBond ER® taken orally (P=NS).	
□ Clini	ral Abuse potential studies (Category 3) Description of Research:	
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	udies / Post Market data which assessed the impact of abuse-deterrent formulation (Category 4) market
□ Fost	☐ Formal studies included recommended study design features (see page 19 FDA Guidance document)
	Description of Research:
	☐ Determination if use of product results in meaningful reductions in abuse, misuse, and related adverse clinical outcomes, including addiction, overdose, and death Description of Research:
	asures and Data Interpretation in Abuse Potential Studies Indardized Instruments Visual Analogue Scales (VAS) Description of Research: <u>Drug liking, take drug again, Drug Effects Questionnaire,</u>
	☐ Profile of Mood States Description of Research:
o Dat	a Interpretation Interpretation Primary Analysis Description of Research: Comparison of mean maximum effect (E _{max}) between crushed intranasal MorphaBond ER® and crushed intranasal MS Contin®
	⊠ Statistical Analysis Description of Research: Provided descriptive statistics; followed FDA guidance to industry on statistical analysis for abuse-deterrence studies based upon comparison of mean drug liking VAS and percent reduction of drug liking VAS.
	 ☑ Data and dropout for non-completers Description of Research: <u>Data regarding dropout and non-completers accounted for.</u>
\square None of the a	bove
Strength of Evi	dence of Abuse Deterrent Properties:
<u>clai</u> red ove	Evidence is based on physical/chemical property, theoretical assumptions or manufacturer's ms and is not yet supported by scientifically sound outcome data which demonstrates a uction in the abuse of the product in the community setting compared to levels of abuse, or dose, and death that occurred when only formulations of the same opioid without abuse-errent properties were available (Category III)
<u>ma</u> den of a	Evidence is based on physical/chemical property, clinical abuse potential studies or laboratory nipulation studies and is not yet supported by scientifically sound outcome data which nonstrates a reduction in the abuse of the product in the community setting compared to levels abuse, overdose, and death that occurred when only formulations of the same opioid without-use-deterrent properties were available (Category II)
<u>red</u> ove	There is evidence, supported by scientifically sound outcome data, which demonstrates a uction in the abuse of the product in the community setting compared to levels of abuse, ordose, and death that occurred when only formulations of the same opioid without abuse-errent properties were available (Category I)